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| | Application No. | Applicant(s) | |
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| | 09/767,418 | SIMON ET AL. | |
| Notice of Allowability | Examiner | Art Unit | |
| | Alan Cross | 3713 | |
| The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31 | S (OR REMAINS) CLOSED i 5) or other appropriate comm RIGHTS. This application is | n this application. If not included unication will be mailed in due course. TH | IS iative |
| 1. \square This communication is responsive to $1/23/2006$. | | | |
| 2. $igtimes$ The allowed claim(s) is/are <u>1-7,13-37,43-60 66-75 renum</u> | <u>bered 1-60</u> . | | |
| Acknowledgment is made of a claim for foreign priority of a) All b) Some* c) None of the: Certified copies of the priority documents have Certified copies of the priority documents have Copies of the certified copies of the priority described international Bureau (PCT Rule 17.2(a)). | ve been received. ve been received in Applicati | on No | e |
| * Certified copies not received: | | | |
| Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. | | e a reply complying with the requirements | |
| 4. A SUBSTITUTE OATH OR DECLARATION must be sub- INFORMAL PATENT APPLICATION (PTO-152) which give | | | |
| 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") mu (a) ☐ including changes required by the Notice of Draftspe 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examine Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in 6. ☐ DEPOSIT OF and/or INFORMATION about the dep attached Examiner's comment regarding REQUIREMENT | rson's Patent Drawing Revie r's Amendment / Comment of 1.84(c)) should be written on the header according to 37 C osit of BIOLOGICAL MAT | r in the Office action of he drawings in the front (not the back) of R 1.121(d). ERIAL must be submitted. Note the | |
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| Attachment(s) 1. Thotice of References Cited (PTO-892) | 5. Notice of I | formal Patent Application | |
| 2. Notice of Draftperson's Patent Drawing Review (PTO-948) | | ummary (PTO-413), /Mail Date | |
| 3. Information Disclosure Statements (PTO/SB/08), | | Amendment/Comment | |
| Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material | 9. 🗌 Other | Statement of Reasons for Allowance XUAN M. THAI | |
| | SUPERV | ISORY PATENT EXAMINER | |

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DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Michael Curtis on September 9, 2006.

This application has been amended as follows:

Claim 1 line 30 after "has concluded" insert the following: --; and wherein at least one of said betting events has a hierarchal pari-mutuel style payoff tree structure, said hierarchal pari-mutuel style payoff tree structure comprising: said hierarchical betting event having at least two primary outcomes, at least one of said primary outcomes in said hierarchical betting event having at least two secondary outcomes, such that whenever one of said secondary outcomes is a winning bet, one of said primary outcomes is also a winning bet, and wherein winning bets placed on said secondary outcomes receive a higher pari-mutuel style payoff that winning bets placed on said primary outcomes; wherein at least one of said secondary outcomes in said hierarchical betting event has at least two tertiary outcomes, such that whenever one of said tertiary outcomes is a winning bet, one of said secondary outcomes and one of said primary outcomes are also a winning bet, and wherein winning bets placed on said

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tertiary outcomes receive a higher parimutuel style payoff than winning bets placed on said secondary outcomes; wherein at least one of said tertiary outcomes in said hierarchical betting event has at least two quaternary outcomes, such that whenever one of said quaternary outcomes is a winning bet, one of said tertiary outcomes, one of said secondary outcomes, and one of said primary outcomes are also a winning bet, and wherein winning bets placed on said quaternary outcomes receive a higher parimutuel style payoff than winning bets placed on said tertiary outcomes; wherein each said hierarchical payoff in said hierarchical betting event is share (n. lm) determined through step-wise application of a recursive algorithm to said hierarchical payoff tree structure, said recursive algorithm being

share(n, ℓ_k) = [share(n, ℓ_{k-1}) [subbets(ℓ_k) + Bonus(ℓ_k)]] + [bets (ℓ_{k-1}) + subbets(ℓ_{k-1}) + Bonus(ℓ_{k-1})] + wager(n, ℓ_k)

wherein

 ℓ_k is the outcome whose sub-outcome is ℓ_{k-1} .

k takes values 1, 2, 3 . . . m,

m is the number of branches outcome, to is from a base of said hierarchical payoff tree structure,

to is the winning outcome that is a leaf of said hierarchical payoff tree structure, n=player placing bet,

subbets(ℓ_k)=total number of tokens bet on subtrees of ℓ_k .

bets(ℓ_k)=total tokens bet on ℓ_k itself,

wager(n, ℓ_k)=total tokens bet on ℓ_k by player n,

share(n, lo)=wager(n, lo), and

Bonus(ℓ)=bonus(ℓ) if subbet(ℓ)>0, and 0 if subbet(ℓ)=0.

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Claim 22 line 78 after "has concluded" insert the following: --; and wherein at least one of said betting events has a hierarchal pari-mutuel style payoff tree structure, said hierarchal pari-mutuel style payoff tree structure comprising: said hierarchical betting event having at least two primary outcomes, at least one of said primary outcomes in said hierarchical betting event having at least two secondary outcomes, such that whenever one of said secondary outcomes is a winning bet, one of said primary outcomes is also a winning bet, and wherein winning bets placed on said secondary outcomes receive a higher pari-mutuel style payoff that winning bets placed on said primary outcomes; wherein at least one of said secondary outcomes in said hierarchical betting event has at least two tertiary outcomes, such that whenever one of said tertiary outcomes is a winning bet, one of said secondary outcomes and one of said primary outcomes are also a winning bet, and wherein winning bets placed on said tertiary outcomes receive a higher parimutuel style payoff than winning bets placed on said secondary outcomes; wherein at least one of said tertiary outcomes in said hierarchical betting event has at least two quaternary outcomes, such that whenever one of said quaternary outcomes is a winning bet, one of said tertiary outcomes, one of said secondary outcomes, and one of said primary outcomes are also a winning bet, and wherein winning bets placed on said quaternary outcomes receive a higher parimutuel style payoff than winning bets placed on said tertiary outcomes; wherein each said hierarchical payoff in said hierarchical betting event is share (n. lm)

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determined through step-wise application of a recursive algorithm to said hierarchical payoff tree structure, said recursive algorithm being

wherein

 ℓ_k is the outcome whose sub-outcome is ℓ_{k-1} .

k takes values 1, 2, 3 . . . m,

m is the number of branches outcome, to is from a base of said hierarchical payoff tree structure,

to is the winning outcome that is a leaf of said hierarchical payoff tree structure, n=player placing bet.

subbets(ℓ_k)=total number of tokens bet on subtrees of ℓ_k ,

bets(ℓ_k)=total tokens bet on ℓ_k itself,

wager(n, ℓ_k)=total tokens bet on ℓ_k by player n,

share(n, lo)=wager(n, lo), and

Bonus(ℓ)=bonus(ℓ) if subbet(ℓ)>0, and 0 if subbet(ℓ)=0.

Claim 52 line 42 after "has concluded" insert the following: --; and wherein at least one of said betting events has a hierarchal pari-mutuel style payoff tree structure, said hierarchal pari-mutuel style payoff tree structure comprising: said hierarchical betting event having at least two primary outcomes, at least one of said primary outcomes in said hierarchical betting event having at least two secondary outcomes, such that whenever one of said secondary outcomes is a winning bet, one of said primary outcomes is also a winning bet, and wherein winning bets placed on said

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secondary outcomes receive a higher pari-mutuel style payoff that winning bets placed on said primary outcomes; wherein at least one of said secondary outcomes in said hierarchical betting event has at least two tertiary outcomes, such that whenever one of said tertiary outcomes is a winning bet, one of said secondary outcomes and one of said primary outcomes are also a winning bet, and wherein winning bets placed on said tertiary outcomes receive a higher parimutuel style payoff than winning bets placed on said secondary outcomes; wherein at least one of said tertiary outcomes in said hierarchical betting event has at least two quaternary outcomes, such that whenever one of said quaternary outcomes is a winning bet, one of said tertiary outcomes, one of said secondary outcomes, and one of said primary outcomes are also a winning bet, and wherein winning bets placed on said quaternary outcomes receive a higher parimutuel style payoff than winning bets placed on said tertiary outcomes; wherein each said hierarchical payoff in said hierarchical betting event is share (n, lm) determined through step-wise application of a recursive algorithm to said hierarchical payoff tree structure, said recursive algorithm being

share(n, ℓ_k) = [share(n, ℓ_{k-1}) [subbets(ℓ_k) + Bonus(ℓ_k)]] + [bets (ℓ_{k-1}) + subbets(ℓ_{k-1}) + Bonus(ℓ_{k-1})] + wager(n, ℓ_k)

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wherein

 ℓ_k is the outcome whose sub-outcome is ℓ_{k-1} .

k takes values 1, 2, 3 . . . m,

m is the number of branches outcome, to is from a base of said hierarchical payoff tree structure,

to is the winning outcome that is a leaf of said hierarchical payoff tree structure, n=player placing bet.

subbets(ℓ_k)=total number of tokens bet on subtrees of ℓ_k ,

bets(4k)=total tokens bet on 4k itself,

wager(n, ℓ_k)=total tokens bet on ℓ_k by player n,

share(n, ℓo)=wager(n, ℓo), and

Bonus(ℓ)=bonus(ℓ) if subbet(ℓ)>0, and 0 if subbet(ℓ)=0.

Claims 8-11 canceled.

Claims 38-41 canceled.

Claims 61-64 canceled.

Allowable Subject Matter

Claims 1-7,13-37,43-60,66-75 are allowed renumbered 1-60.

The following is an examiner's statement of reasons for allowance: While the prior art of record does disclose making wagering on events in various sporting events. The prior art or record lacks in disclosing a hierarchical pari-mutuel payoff tree with a structure in which the betting event has two primary outcomes and the primary outcomes have two secondary outcomes, such that whenever one of the secondary outcomes is a winning bet, one of the primary outcomes is also a winning bet and that

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the winning bets placed on the secondary outcomes receive a higher pari-mutuel style payoff than winning bets placed on the primary outcomes.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alan Cross whose telephone number is 571-272-5529. The examiner can normally be reached on 8-4 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Xuan Thai can be reached on 571-272-7147. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

XUAN M. THAI SUPERVISORY PATENT EXAMINER

TC3700